

Fuming Xu

List of Publications by Year in descending order

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papers

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36
times ranked

548
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020, 4, 2000250.	8.6	84
2	Spin-dependent Seebeck effects in graphene-based molecular junctions. <i>Physical Review B</i> , 2016, 93, .	3.2	63
3	Novel Two-Dimensional Layered MoSi ₂ Z ₄ (Z = P, As): New Promising Optoelectronic Materials. <i>Nanomaterials</i> , 2021, 11, 559.	4.1	52
4	Electronics and optoelectronics of lateral heterostructures within monolayer indium monochalcogenides. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11253-11260.	5.5	49
5	Waiting time distribution of quantum electronic transport in the transient regime. <i>Physical Review B</i> , 2014, 89, .	3.2	48
6	Valley Seebeck effect in gate tunable zigzag graphene nanoribbons. <i>Carbon</i> , 2016, 99, 451-455.	10.3	28
7	Influence of dephasing and B/N doping on valley Seebeck effect in zigzag graphene nanoribbons. <i>Carbon</i> , 2018, 126, 183-189.	10.3	22
8	Tunable current partition at zero-line intersection of quantum anomalous Hall topologies. <i>Physical Review B</i> , 2017, 96, .	3.2	20
9	Transmission spectra and valley processing of graphene and carbon nanotube superlattices with inter-valley coupling. <i>New Journal of Physics</i> , 2016, 18, 113011.	2.9	18
10	Gate controllable optical spin current generation in zigzag graphene nanoribbon. <i>Carbon</i> , 2021, 173, 565-571.	10.3	17
11	Spin-resolved electron waiting times in a quantum-dot spin valve. <i>Physical Review B</i> , 2018, 97, .	3.2	14
12	Transient dynamics of magnetic Co-graphene systems. <i>Nanoscale</i> , 2015, 7, 10030-10038.	5.6	12
13	One-dimensional topological superconductivity at the edges of twisted bilayer graphene nanoribbons. <i>Physical Review B</i> , 2019, 100, .	3.2	12
14	Majorana polarization in non-Hermitian topological superconductors. <i>Physical Review B</i> , 2021, 103, .	3.2	12
15	Statistics of Wigner delay time in Anderson disordered systems. <i>Physical Review B</i> , 2011, 84, .	3.2	10
16	First-principles study on the electronic and transport properties of periodically nitrogen-doped graphene and carbon nanotube superlattices. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	10
17	Influence of magnetic disorders on quantum anomalous Hall effect in magnetic topological insulator films beyond the two-dimensional limit. <i>New Journal of Physics</i> , 2018, 20, 043011.	2.9	10
18	Tunable electronic properties and band alignments of InAs-arsenene heterostructures via external strain and electric field. <i>New Journal of Chemistry</i> , 2021, 45, 2508-2519.	2.8	10

#	ARTICLE	IF	CITATIONS
19	Enhancement of shot noise due to the fluctuation of Coulomb interaction. <i>Physical Review B</i> , 2012, 85, .	3.2	9
20	Unconventional real-complex spectral transition and Majorana zero modes in nonreciprocal quasicrystals. <i>Physical Review B</i> , 2021, 104, .	3.2	9
21	Numerical study of parametric pumping current in mesoscopic systems in the presence of a magnetic field. <i>Physical Review B</i> , 2011, 84, .	3.2	8
22	Nonlinear Hall effect induced by internal Coulomb interaction and phase relaxation process in a four-terminal system with time-reversal symmetry. <i>Physical Review B</i> , 2022, 105, .	3.2	8
23	Emission fluctuation of mesoscopic conductors in the presence of disorders. <i>Nanotechnology</i> , 2008, 19, 435402.	2.6	7
24	Transport induced dimer state from topological corner states. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	7
25	Statistical properties of electrochemical capacitance in disordered mesoscopic capacitors. <i>Physical Review B</i> , 2014, 89, .	3.2	6
26	Topological superconductors and exact mobility edges in non-Hermitian quasicrystals. <i>Physical Review B</i> , 2022, 105, .	3.2	6
27	Engineering giant Rashba spin-orbit splitting in graphene via n^{th} codoping. <i>Physical Review B</i> , 2019, 99, .	3.2	5
28	First principles research on the dynamic conductance and transient current of black phosphorus transistor. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 165303.	2.8	5
29	Transport features of topological corner states in honeycomb lattice with multihollow structure. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	5
30	Geometric effect on quantum anomalous Hall states in magnetic topological insulators. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 435303.	1.8	4
31	Full counting statistics of phonon transport in disordered systems. <i>Frontiers of Physics</i> , 2021, 16, 1.	5.0	3
32	Valley-polarized pumping current in zigzag graphene nanoribbons with different spatial symmetries. <i>Chinese Physics B</i> , 2018, 27, 127203.	1.4	2
33	Evolution of individual quantum Hall edge states in the presence of disorder. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	2
34	Dynamic response of silicon nanostructures at finite frequency: An orbital-free density functional theory and non-equilibrium Green's function study. <i>Journal of Applied Physics</i> , 2013, 114, 153703.	2.5	1
35	Efficient spin-current injection in single-molecule magnet junctions. <i>AIP Advances</i> , 2018, 8, 015131.	1.3	1
36	Geometric decoherence of valley excitons in monolayer transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 295601.	1.8	0